

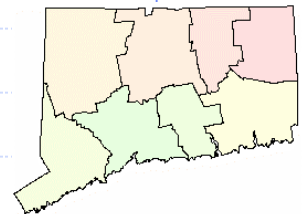
Connecticut Education Network

CAPSS CEN Project Update

January 27, 2003



University of
Connecticut



Agenda

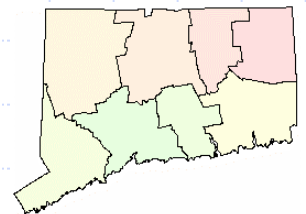
Update on CEN Status

“Call to Arms” for ERATE
Letters of Agency

Questions and Answers

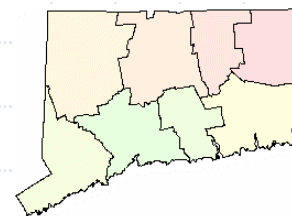


Connecticut



Connecticut Education Network

- ◆ Phase I & II build completed Nov 02
 - Now connect to 91+ locations
 - 182,000 K-12 Students (43%)
 - 80,000 Higher Ed Students (45%)
 - 15 libraries
- ◆ Phase III completing this month



Higher Education Connectivity

◆ Who's on Now

- UConn (6)*
- CSU (3)*
- Community Technical Colleges
- Charter Oak State*
- Yale
- Trinity *
- Wesleyan *
- UNH

◆ Pending Cutover

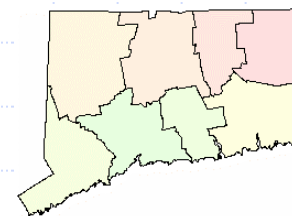
- U Hartford
- Rensselaer
- St. Joseph's
- Quinnipiac

◆ In Construction

- St. Vincent's
- Fairfield
- U Bridgeport
- Sacred Heart

◆ Who is next:

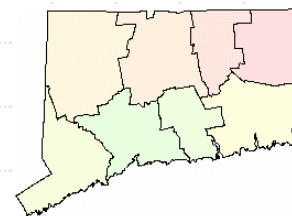
- Teikyo Post
- Conn College
- USCGA
- Mitchell



Year 6 CEN E-Rate Approval

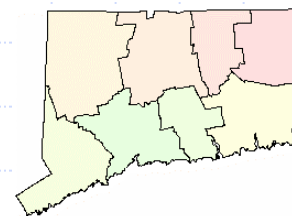
- ◆ Wave 20, January 20, 2004
 - !!!! 12 Months Later !!!!
- ◆ 48% or \$344,021 to Leased Circuits
- ◆ 54% or \$ 3,540,778 to Leased Fiber

- ◆ Discussion with Cynthia Cooper, George McDonald next week at Statenets

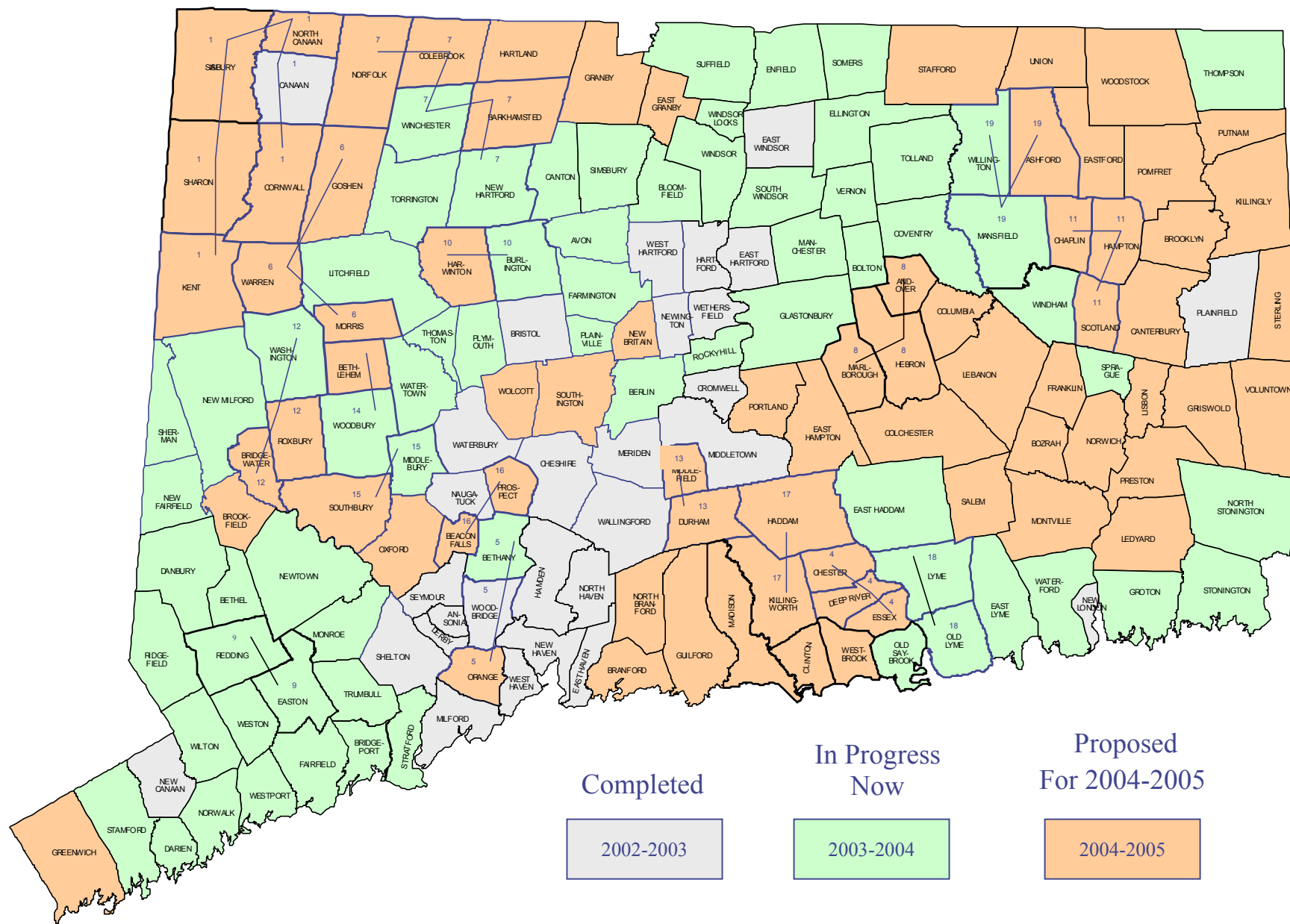


Current Activities (Phase IV)

- ◆ With January 20, 2004 approval; construction underway to add:
 - 92 new optically connected sites
 - 215 miles of new fiber backbone
 - 14 Higher Education & Hub sites
 - 23 new libraries
- ◆ 2004 – 2005 Year 7 E Rate Application
 - Remainder of State's school districts and principal public libraries
- ◆ Launch CEN Newsletter
- ◆ Update Web Resources



CONNECTICUT EDUCATION NETWORK K12 SITES



PRELIMINARY FIBER DELIVERY TIMELINES

Windsor High School	Windsor	2/28/2004
Trumbull Board of Ed	Trumbull	2/15/2004
Southbury IBM Route		4/30/2004
Ellington Middle School	Ellington	5/30/2004
Glastonbury High School	Glastonbury	5/30/2004
Manchester Town Hall / High School	Manchester	5/30/2004
Rockville High School	Vernon	5/30/2004
Bristol Board of Education	Bristol	5/30/2004
Plainville High School	Plainville	5/30/2004
Rocky Hill High School or Middle School,	Rocky Hill	5/30/2004
Bloomfield Board of Ed	Bloomfield	6/30/2004
Hartford - CREC	Hartford	6/30/2004
Fairfield Board of Ed	Fairfield	6/30/2004
Mansfield EO Smith High School	Mansfield	6/30/2004
Enfield Fermi High	Enfield	7/30/2004
Windsor Locks High School	Windsor Locks	7/30/2004
Bridgeport Public Schools	Bridgeport	7/30/2004
Stamford Board of Ed	Stamford	7/30/2004
Stratford Board of Education	Stratford	7/30/2004

CTS Troop A Hub Site	Southbury	7/30/2004
CTS Troop G Hub Site	Bridgeport	7/30/2004
Simsbury High School	Simsbury	8/30/2004
Bethany	Bethany	8/30/2004
Monroe Elementary School	Monroe	8/30/2004
Norwalk BOE	Norwalk	8/30/2004
Trumbull – CES	Trumbull	8/30/2004
Weston	Weston	8/30/2004
Westport Town Hall	Westport	8/30/2004
Wilton	Wilton	8/30/2004
Stamford Hub Site	Stamford	8/30/2004
Danbury Board of Ed	Danbury	8/30/2004
Danbury High School	Danbury	8/30/2004
New Canaan Town Hall	New Canaan	8/30/2004
Southbury	Southbury	8/30/2004
Ansonia - Emmett Obrien VT	Ansonia	8/30/2004
Old Lyme	Old Lyme	8/30/2004
Old Saybrook	Old Saybrook	8/30/2004
Old Lyme to Learn	Old Lyme	8/30/2004

Equipment and Service Availability shortly after.

PRELIMINARY FIBER DELIVERY TIMELINES

Avon High School	Avon	9/30/2004
Middlebury	Middlebury	10/30/2004
Wolcott	Wolcott	10/30/2004
Darien BOE	Darien	10/30/2004
Rockville to Storrs	Tolland	10/30/2004
Tolland High	Tolland	10/30/2004
Bethel High School	Bethel	10/30/2004
Danbury - Henry Abbott VT	Danbury	10/30/2004
Stamford - JM Wright VT	Stamford	10/30/2004
Waterford	Waterford	10/30/2004
Willington - District 19	Willington	10/30/2004
Canton Senior High School	Collinsville	11/30/2004
New Hartford	New Hartford	10/30/2004
Torrington	Torrington	10/30/2004
New Fairfield	New Fairfield	10/30/2004
New London	New London	10/30/2004
LEARN - RESC	Old Lyme	10/30/2004
New London to Groton	Groton	10/30/2004
Grasso - VT	Groton	10/30/2004

East Hartford High School	East Hartford	11/30/2004
East Windsor Jr/Sr High	East Windsor	11/30/2004
Farmington High School	Farmington	11/30/2004
Somers	Somers	11/30/2004
Berlin Town Hall	Berlin	11/30/2004
Hamden - Eli Whitney VoTech	Hamden	11/30/2004
Western Conn State Univ	Danbury	11/30/2004
Suffield	Suffield	12/30/2004
Windham Middle School	Windham	12/30/2004
Burlington	Burlington	12/30/2004
Litchfield	Litchfield	12/30/2004
Litchfield - RESC	Litchfield	12/30/2004
Newtown High School	Sandy Hook	12/30/2004
Sherman	Sherman	12/30/2004
Manchester - Howell Cheney VT	Manchester	12/30/2004
Waterbury - JF Kaynor VT	Waterbury	12/30/2004
Milford- Pratt VT	Milford	12/30/2004
Bridgeport -Bullard Havens VT	Bridgeport	12/30/2004

Equipment and Service Availability shortly after.

PRELIMINARY FIBER DELIVERY TIMELINES

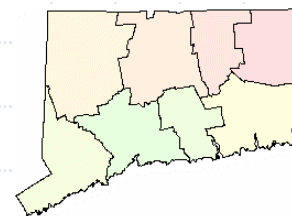
New Milford	New Milford	12/30/2004
Shepaug Valley High	Washington	12/30/2004
Meriden - HC Wilcox VT	Meriden	12/30/2004
Middletown - Vinal VT	Middletown	12/30/2004
New Britain - Goodwin VT	New Britain	12/30/2004
Windham - Windham VT	Windham	12/30/2004
Hellen Keller Middle School	Easton	12/30/2004

12 sites not listed awaiting SBC service availability for OptiMAN at locations.

Equipment and Service Availability shortly after.

Year 7 - 2004-2005 ERate App

- ◆ Scope is ***every K12 district***, every principal public library and all vocational technical schools
- ◆ Expect approximately 50% reimbursement on \$14,000,000 in project expenses
- ◆ Need Letters of Agency from every superintendent and library head
 - Sites that do not provide one will be left out (maybe forever)
- ◆ Will be filed Monday or Tuesday next week



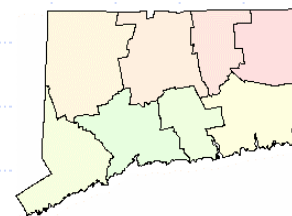
Letter of Agency

the attached "Letter of Agency" (LOA), which will signify to the E-Rate program administrator that we (CEN) are authorized to file, ***only for the connection from your district to the CEN***, on your behalf.

Please note that signing this LOA will not affect in any way your ability to file separate E-Rate applications on your own for any services or goods you may require for your district or library. This application is completely separate and distinct from your local efforts. The State's application is ***specifically and narrowly designed not to overlap with any local applications***. The State files only for the connection from your district to the Connecticut Education Network as a telecom circuit charge. Although we do offer you filtering services and Internet service on that connection, we do not file with E-rate for any funds related to those services so that there are no instances of overlapping applications between the CEN and your local efforts. ***The State is confident that this approach is correct and we would welcome an opportunity to correct alternate interpretations that may be presented to you.***



Connecticut

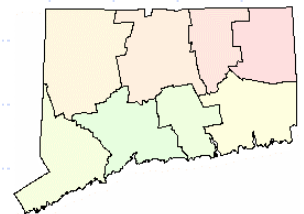


What are Superintendents asked to sign?

My signature on this document attests that I am aware that the State of Connecticut Department of Information Technology (DOIT) is filing a Year 7 Universal Services Fund application for the telecommunications services to connect my site to the Connecticut Education Network. I authorize participation in the consortium application.

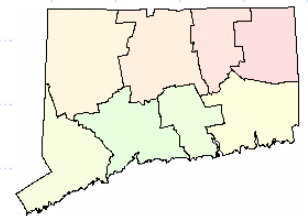


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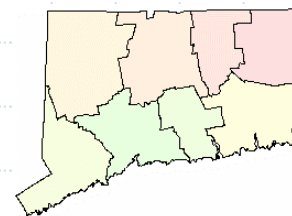
By end of 2004, CEN will extend to:

- ◆ 82% of K-12 students (464,000+)
 - ◆ 88% of higher education students (150,000+)
 - ◆ Connect to at least 58 library systems
-
- ◆ And, by July 2005:
 - Network complete to 100% of K12, Libraries and Higher Education

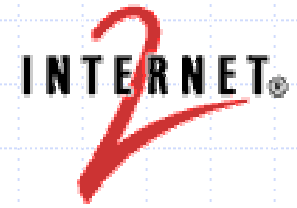


CEN Advanced Services Support

- ◆ Agreement with UConn to assist with:
 - Technical Staffing for K-20 advanced services
 - ◆ Rob Vietzke, Network Architect
 - ◆ Robin Brown, Senior Security Analyst
 - ◆ Doug Gregory, Network Technician
 - ◆ Open Search, Senior Network Engineer (CCIE)
 - Internet2 Sponsorship and Connection
 - Low Cost Commercial Internet Services
 - Partnership in developing regional, national and international advanced networking



Internet2 SEGP

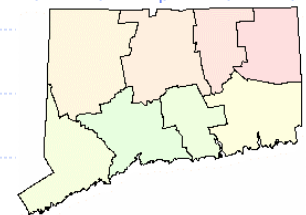


Sponsored Educational Group Participant

- ◆ Non-commercial network for R & E
- ◆ Access to next generation content for K-20
- ◆ Ability CEN participants to stay competitive
- ◆ Connecticut in-state capacity second to none
- ◆ Not available from *any* Commercial provider
- ◆ Going to TITANIC with Bob Ballard July, 2004



Internet2® is a not-for-profit consortium, led by over 200 US universities, developing and deploying advanced network applications and technology, accelerating the creation of tomorrow's Internet.



NEREN

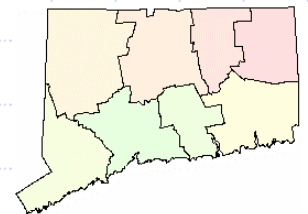
A REGIONAL OPTICAL NETWORK

Northeast Research & Education Network

- ◆ Connecticut
- ◆ Rhode Island
- ◆ New York
- ◆ Massachusetts
- ◆ Vermont
- ◆ Maine
- ◆ New Hampshire

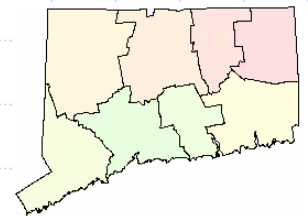


Connecticut

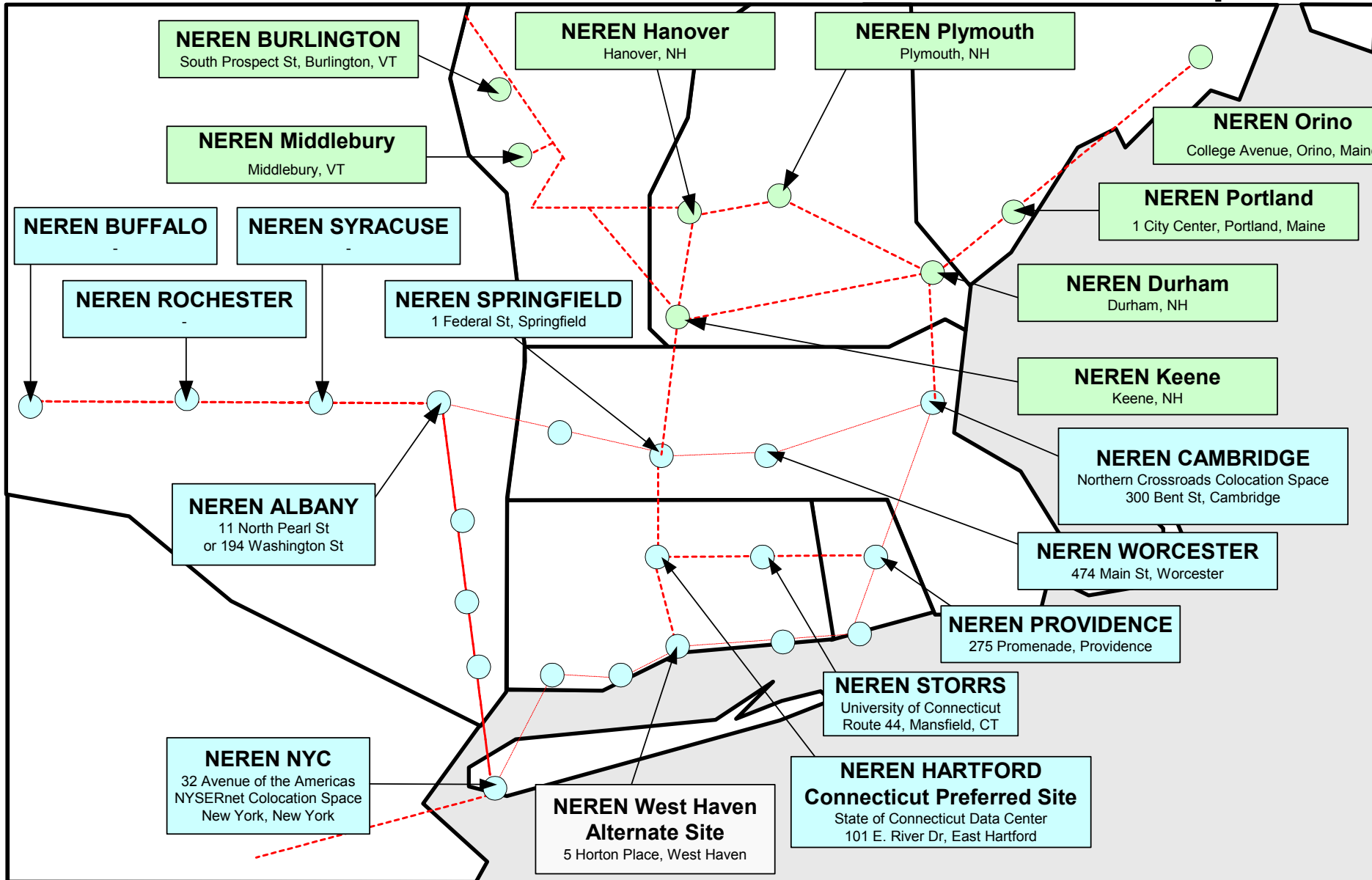


NEREN Opportunities

- ◆ Leverage bottom of long-haul glut
- ◆ Bring national and international research capacity into North East
- ◆ Create level playing field with rest of country & world
- ◆ Attain long-term cost-controlled access to next generation services in New York & Boston



Northeast Research and Education Network Proposal



----- Vendor Fiber Routes

K-12 CEN Services

Central Filtering

Central Firewall

Internet2 Access

Peer-to-Peer Control *New

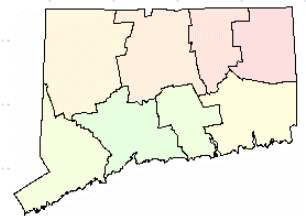
H.323 Video Conference Bridging *New

Security Consulting (design) *New

Network Design Consulting (design) *New

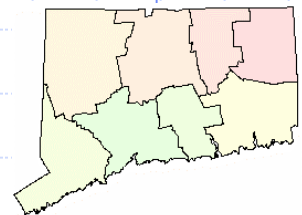


Connecticut



CEN Team Self Challenge

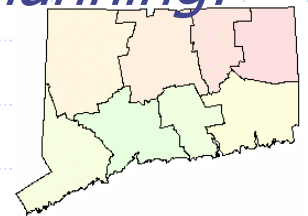
Be the first State to complete an all-optical next generation integrated K-20 research and education infrastructure



Challenge to Schools, Campuses and Libraries

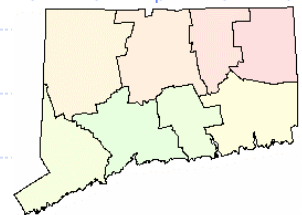
- ◆ Think K through 20+ (think globally, act globally)
- ◆ Imagine what you want CEN to be, then participate, advocate and demand nothing less.
- ◆ It is –your- network, *communicate interests, needs and concerns*
- ◆ *Think flexible*

The CEN Team would like nothing more than to please all participants, keep us in your thoughts & planning!



CEN Attitude:

Extremely Bullish going in to 2004.



Contact CEN

<http://www.ct.gov/cen>

Rob.Vietzke@uconn.edu

CEN Network Architect, Dept. of Information Technology
Director, CEN Advanced Services Center, University of Connecticut

John.Vittner@po.state.ct.us

Co program manager, Dept. of Information Technology

Robin.Brown@uconn.edu

Senior Security Analyst

Doug.Gregory@po.state.ct.us

Network Technician

Sheri.Devaux@po.state.ct.us

Internet Services Consultant (Filtering, DNS)



Connecticut

